

Dr. Feng Gai

Contact Information

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Positions

- Chair Professor, College of Chemistry and Molecular Engineering, Peking University (December 2021 – present)
- Edmund J. and Louise W. Kahn Term Professor, Department of Chemistry, University of Pennsylvania (July 2014 – October 2021)
- Assistant, Associate and Full Professor, Department of Chemistry, University of Pennsylvania (August 1999 – October 2021)
- Lecture, Department of Chemistry, Tsinghua University (August 1986 – June 1989)

Education and Training

- Postdoctoral Fellow in Biophysics (1997 – 1999), Los Alamos National Lab
- Postdoctoral Fellow in Biophysics (1994 – 1997), Harvard University
- Ph.D. in Physical Chemistry (1994), Iowa State University
- M.S. in Physical Chemistry (1986), Peking University
- B.S. in Chemistry (1983), Peking University

Honors and Awards

Bayer Endowed Chair, Bayer-PKU Center for Translational Research (2021)
Peking University Chair Professor (2021)
Ge Li and Ning Zhao Chair Professor, CCME, Peking University (2021)
Molecular Science Frontier Lecture Professorship, Institute of Chemistry, CAS (2016)
American Chemical Society Philadelphia Section Award (2014)
Alumni Excellence Award, Department of Chemistry, Iowa State University (2014)
Edmund J. and Louise W. Kahn Term Professor of Chemistry, UPenn (2014)
Fellow of the American Association for the Advancement of Science (2012)
Fellow of the American Physical Society (2011)
National Science Foundation CAREER Award (2001)
Research Innovation Award, Research Corporation (2000)
Director's Postdoctoral Fellowship, Los Alamos National Lab (1997)
Zaffarano Prize for Graduate Student Research, Iowa State University (1994)
Henry Gilman Fellowship, Department of Chemistry, Iowa State University (1993)

Phillips Fellowship, Department of Chemistry, Iowa State University (1992)

Publications

Listed below are representative perspective and review articles, other publications can be found via Google Scholar (User Name: Feng Gai)

1. Tryptophan as a template for development of visible fluorescent amino acids. A. Acharyya, W. K. Zhang, and F. Gai. *J. Phys. Chem. B* **2021** 125, 5458–5465.
2. Infrared and fluorescence assessment of protein dynamics: From folding to function. B. Ding, M. R. Hilaire, and F. Gai. *J. Phys. Chem. B* **2016** 120, 5103–5113.
3. Biomolecular crowding arising from small molecules, molecular constraints, surface packing, and nano-confinement. M. R. Hilaire, R. M. Abaskharon, and F. Gai. *J. Phys. Chem. Lett.* **2015** 6, 2546–2553.
4. Site-specific infrared probes of proteins. J. Q. Ma, I. M. Pazos, W. K. Zhang, R. M. Culik, and F. Gai. *Annu. Rev. Phys. Chem.* **2015** 66, 357–77.
5. Spectroscopic studies of protein folding: Linear and nonlinear methods. A. L. Serrano, M. M. Waegele, and F. Gai. *Prot. Sci.* **2012** 21, 157–170.
6. Site-specific spectroscopic reporters of the local electric field, hydration, structure, and dynamics of biomolecules. M. M. Waegele, R. M. Culik, and F. Gai. *J. Phys. Chem. Lett.* **2011** 2, 2598–2609.